

Message Text

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INFO OCT-01 ISO-00 FEA-01 ERDA-05 AID-05 CEA-01
CIAE-00 COME-00 DODE-00 EB-08 FPC-01 H-01 INR-07
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OES-07 SP-02 SS-15 STR-05 TRSE-00 ACDA-12 PA-01
PRS-01 /110 W

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R 021802Z DEC 77
FM AMEMBASSY PARIS
TO DEPARTMENT OF ENERGY WASHDC
INFO SECSTATE WASHDC 2542
AMEMBASSY BRUSSELS

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USEEC

PASS DOE FOR SIEVERING/IA AND VANDERRY/IA; USEEC
FOR PURPLE

E.O. 11652: N/A
TAGS: TECH, ENRG, FR
SUBJECT: POTENTIAL COOPERATION IN ENERGY CONSERVATION;
REVIEW OF THE FRENCH PROGRAM.

REF: PARIS 34740

1. REVIEW OF THE FRENCH ENERGY CONSERVATION PROGRAM
INDICATES THAT FRANCE HAS SOME SUCCESS IN THIS AREA
BUT THAT MUCH MORE REMAINS TO BE DONE. L'AGENCY POUR
LES ECONOMIES D'ENERGIE (THE ENERGY CONSERVATION AGENCY
CREATED TOWARD THE END OF 1974) IS RESPONSIBLE FOR THE
FRENCH ENERGY CONSERVATION PROGRAM. INITIAL, RELA-
TIVELY EASILY ATTAINABLE SAVINGS, ESTIMATED AT ABOUT
13 MTEP (MILLION TONS EQUIVALENT PETROLEUM) HAVE
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BEEN ACHIEVED IN 1975 AND HAVE BEEN MAINTAINED IN
1976 AND 1977. RECENT INVESTMENTS HAVE A LONGER
TERM PAY-OFF AND IT IS EXPECTED THAT A YEAR OR MORE
WILL PASS BEFORE THE SITUATION IS APPRECIABLY IMPROVED.
THE TARGET IS A SAVING OF ABOUT 45 MTEP BY ABOUT 1985
AND ITS ACHIEVEMENT WILL DEPEND A GREAT DEAL ON THE
ABILITY TO KEEP UP THE REQUIRED INVESTMENTS. THE

FRENCH CONSERVATION AGENCY IS INTERESTED IN A COOPERATIVE EFFORT IN THE FIELD OF ENERGY CONSERVATION WITH THE US DEPARTMENT OF ENERGY.

2. THE BUDGET OF THE CONSERVATION AGENCY IN 1977 IS ABOUT 77 MILLION FRANCS (ABOUT 5 FRANCS EQUALS \$1). IN ADDITION, THE AGENCY DRAWS ON FUNDS CATEGORIZED UNDER "NEW ENERGIES" (ABOUT 5 MILLION FRANCS IN 1977) AND CAN DRAW ON A SPECIAL FIXED FUND OF 210 MILLION FRANCS (OF WHICH 92 MILLION FRANCS WERE SPEND IN 1976.

3. THE FRENCH GOVERNMENT HAS BEEN ACTIVE IN: (A) ESTABLISHING REGULATIONS LIMITING ENERGY CONSUMPTION; (B) PROVIDING INCENTIVES TO INTRODUCE ENERGY SAVING EQUIPMENT; (C) ADVERTISING SUPPORT OF ENERGY CONSERVATION; AND (D) DEMONSTRATING NEW ENERGY SAVING TECHNIQUES.

THE CONSERVATION EFFORT IS FOCUSED ON FOUR MAIN AREAS: INDUSTRY AND AGRICULTURE, RESIDENTIAL HEATING, TRANSPORTATION, AND ENERGY GENERATION AND LOSSES.

4. OF THE ESTIMATED 13 MTEP CONSERVED ANNUALLY, GREATEST SUCCESS HAS BEEN ACHIEVED IN RESIDENTIAL HEATING SAVINGS, ESTIMATED AT 10 MTEP. THE ESTIMATED YEARLY SAVING IN EACH OF THE REMAINING THREE AREAS LIMITED OFFICIAL USE

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IS ONE MTEP. OF THE TARGETED SAVINGS OF 45 MTEP, IT IS EXPECTED THAT AN ADDITIONAL 10 MTEP CAN BE SAVED IN THE HOME HEATING SECTOR, ABOUT 14 MTEP IN INDUSTRY AND AGRICULTURE, ABOUT SIX MTEP IN TRANSPORTATION, AND ABOUT TWO MTEP IN ENERGY GENERATION AND LOSES.

5. STRICT REGULATIONS HAVE BEEN ESTABLISHED IN TERMS OF SUCH ITEMS AS MAXIMUM TEMPERATURE IN LODGINGS, THERMAL INSULATION STANDARDS, INDIVIDUAL METERING OF HOT WATER USAGE, EFFICIENCY OF ENERGY USING SYSTEMS, ETC. THE 4,000 LARGEST USERS OF HEAT AND ELECTRICITY WERE FORCED TO INVESTIGATE THEIR ENERGY SUPPLY APPROACH

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AS WELL AS ENERGY TRANSPORTATION, STORAGE, AND SAVINGS POTENTIAL RELATED TO THEIR REQUIREMENTS. ALSO, HEATING OIL IS RATIONED.

6. LOANS FAVORING ENERGY SAVING EQUIPMENT MODIFICATIONS HAVE BEEN GRANTED AND INVESTMENT INCENTIVES ARE USED ON A LARGE SCALE. THE CONSERVATION AGENCY STAFF ESTIMATES THAT LAST YEAR ABOUT ONE BILLION FRANCS (OF WHICH THE AGENCY CONTRIBUTED ABOUT 150-200 MILLION FRANCS) HAS BEEN INVESTED FOR SUCH PURPOSES. HOWEVER, THEY STATE THAT THIS INVESTMENT LEVEL WOULD HAVE TO DOUBLE (TO 2 BILLION FRANCS PER YEAR, INCLUDING ABOUT 300-400 MILLION FRANCS OF GOVERNMENT SEED MONEY) IN ORDER TO REACH TARGETED 1985 SAVINGS IN THE INDUSTRIAL SECTOR (OVERALL INVESTMENTS OF FIVE BILLION FRANCS/YEAR MAY BE NECESSARY TO ACHIEVE THE 45 MTEP GOAL). THEY EXPECT THAT THE INVESTMENT SITUATION WILL BE IMPROVED BY A NEW LAW WHICH MAY BECOME EFFECTIVE ON JANUARY 1, 1978, WHICH WOULD ADD A TWO TO THREE PERCENT TAX ON ENERGY CONSUMPTION (EXCLUDING HEATING LIMITED OFFICIAL USE

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OIL), FROM WHICH 30 PERCENT WOULD BE DEDUCTIBLE FOR INVESTMENTS FAVORING ENERGY CONSERVATION.

7. GOVERNMENT ENERGY CONSERVATION RESEARCH IS COORDINATED BY DGRST (DELEGATION GENERALE A LA RECHERCHE SCIENTIFIQUE ET TECHNIQUE) AND FRENCH INDUSTRY CARRIES OUT CONSIDERABLE CONSERVATION ORIENTED RESEARCH, MOSTLY OF A PROPRIETARY NATURE. ANVAR (AGENCE NATIONALE DE VALORISATION DE LA RECHERCHE) WORKS WITH THE CON-

SERVATION AGENCY ON EVALUATIONS OF IDEAS PERTAINING TO ENERGY CONSERVATION WHICH ARE SUBMITTED BY INDEPENDENT INVENTORS. THE CONSERVATION AGENCY ALSO CONTROLS A NEW ORGANIZATION, SCETECAL, CREATED TO SOLVE INSTITUTIONAL PROBLEMS RELATED TO IMPLEMENTING CO-GENERATION OF ENERGY.

8. A KEY FUNCTION OF THE CONSERVATION AGENCY IS TO DEMONSTRATE NEW ENERGY SAVING IDEAS, AS WELL AS RESEARCH RESULTS, AND TO HELP IMPLEMENT THEM ON A LARGE SCALE. IT CAN SUBSIDIZE UP TO 50 PERCENT OF THE COST OF SUCH DEMONSTRATIONS AND UP TO 100 PERCENT OF THE COST OF RELATED TEST MEASUREMENTS. THE ONLY REQUIREMENTS ARE THE PARTICIPANTS' AGREEMENT TO ALLOW GOVERNMENT VERIFICATION OF DATA AND THE PUBLICIZING OF RESULTS.

9. EIGHTY-FIVE PROJECTS WERE SUPPORTED UNDER THE ABOVE PROGRAM THROUGH DECEMBER 1976, AND CONTINUOUS INDUSTRIAL CONTACTS ARE MAINTAINED BY THE CONSERVATION AGENCY TO EXPAND THIS ACTIVITY AS MUCH AS WARRANTED BY THE VALUE OF THE SUGGESTIONS. SOME 20 PROJECTS HAVE BEEN COMPLETED. OF THESE A FEW FAILED TO PRODUCE THE EXPECTED BENEFITS, BUT THE OTHERS HAVE GIVEN GOOD RESULTS. EACH ACTIVE PROJECT IS DOCUMENTED IN A LOOSE LIMITED OFFICIAL USE

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LEAF BLUE BOOK (A COPY OF IT IS ON FILE AND ANOTHER COPY HAS BEEN TRANSMITTED TO DOE). AT TERMINATION, PRESS RELEASES ARE MADE ON THOSE PROJECTS WHICH OBTAIN FAVORABLE RESULTS, AND IN THE FUTURE THE AGENCY PLANS TO FOLLOW THESE WITH MORE DETAILED DOCUMENTATION. ALSO, SYMPOSIA WILL BE HELD AT TEST LOCATIONS TO PUBLICIZE THE RESULTS AS MUCH AS PRACTICAL, AND HELP WIDER IMPLEMENTATION.

10. THE ABOVE DEMONSTRATIONS VARY IN SCOPE, COMPLEXITY, POTENTIAL IMPACT AND MOST ARE OF RELATIVELY SHORT DURATION. AS AN EXAMPLE, A RECENTLY COMPLETED PROJECT DEMONSTRATED AN IMPROVED HEAT EXCHANGER FOR MILK POWDER DRYING, AND IT IS EXPECTED THAT SOON THE MILK INDUSTRY WILL INSTALL 200 SUCH UNITS.

11. FRENCH INDUSTRY IS ACTIVELY COOPERATING TO ACHIEVE ENERGY CONSERVATION AND SOME PROCESS IMPROVEMENTS HAVE BEEN DEVELOPED WHICH APPEAR TO BE OF INTEREST TO THE US. FOR INSTANCE, DURING A RECENT EXPLORATORY VISIT WITHIN THE FRAMEWORK OF A DOE CONTRACT, R. STRAUS

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PRS-01 /110 W
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(OF GALAXY, INC.) HAD DISCUSSIONS WITH SEVERAL FRENCH COMPANIES AND CONCLUDED THAT DOE SHOULD EXPLORE FURTHER FRENCH TECHNIQUES IN CLOTH BLEACHING AND ALFALFA DRYING.

12. FRENCH OFFICIALS ARE PARTICULARLY INTERESTED IN THE CONSERVATION POTENTIAL RELATED TO WIDESPREAD INTRODUCTION OF HEAT PUMPS, ENERGY CO-GENERATION, AND GREATER UTILIZATION OF THERMAL WASTES. THEY WOULD BE VERY INTERESTED IN WORKING WITH THE US ON ADVANCES IN THESE AREAS.

13. SOME 30 MANUFACTURERS OF HEAT PUMPS ARE LISTED IN FRANCE (THE LIST IS SON FILE AND AVAILABLE ON REQUEST) AND 15 HEAT PUMP DEMONSTRATIONS ARE IN COURSE, INVOLVING APARTMENTS, HOUSES, INDUSTRIAL APPLICATIONS FOR DRYING PROCESSES AND DISTILLATION COLUMNS, GEOTHERMAL ENERGY UTILIZATION, ETC. HLM (HABITATION NATIONALE MODEREE) HAS AGREED TO PLACE AN ORDER FOR 1,200 STANDARDIZED HEAT PUMPS WHICH IT IS EXPECTED WILL

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BE MANUFACTURED BY LEROY-SOMMER, OR POSSIBLY, L'UNITE HERMETIQUE, A SUBSIDIARY OF THOMSON.

14. IN ADDITION, THERE ARE STUDY AND R & D EFFORTS ON MORE ADVANCED AND HIGHER TEMPERATURE HEAT PUMPS. THESE EFFORTS CENTER ON IMPROVED COMPRESSORS, ALTERNATE FLUIDS, LARGER CAPACITIES, AND MULTI-STAGE APPLICATIONS. THERE IS CONSIDERABLE INTEREST IN ABSORPTION AND AIR/WATER SYSTEMS AND LESS INTEREST THAN IN THE US IN AIR/AIR SYSTEMS WITH AIR CONDITIONING.

15. AS INDICATED IN REFTTEL THE FRENCH/US COOPERATION IN THIS AREA COULD BE LAUNCHED THROUGH TWO MEETINGS: A JANUARY 1978 DOE PRESENTATION ON THE US PROGRAM, AND A MID-1978 TECHNICAL SYMPOSIUM FEATURING US AND FRENCH PRESENTATIONS ON INDUSTRIAL ENERGY CONSERVATION TECHNIQUES. FOR THE LATTER SYMPOSIUM, FRENCH STAFF TENTATIVELY SUGGEST THE FOLLOWING KEY AGENDA ITEMS:

(A) HEAT PUMPS FOR INDUSTRIAL APPLICATION OF MEDIUM (100 KW-1MW) AND HIGH (ABOVE 1MW POWER). APPLICATIONS INVOLVED WOULD INCLUDE DRYIG (TEXTILE, WOOD, LEATHER, ETC.) HEATING OF INDUSTRIAL LODGINGS, DISTILLATION, AND USE OF THERMAL WASTES.

(B) POWER PRODUCTION FROM THERMAL WASTE, INCLUDING FREON AND BINARY CYCLES, AS WELL AS, POWER GENERATION IN THE 500 KW BRACKET FROM RELATIVELY HIGH TEMPERATURE WASTES IN THE 250 DEGREE C. RANGE.

(C) HEAT EXCHANGERS (RECUPERATORS, INCLUDING EFFORTS ON RAW MATERIALS AND GEOMETRIES).

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(D) TURBINES FOR ENERGY RECUPERATION FROM VARIOUS GASES AND CHEMICAL PROCESSES, INCLUDING SUB-ATMOSPHERIC CYCLES;

(E) INDUSTRIAL PROCESSES, FOR INSTANCE, IN THE ALUMINUM AND PAPER INDUSTRIES.

16. THE ABOVE MATERIAL IS BASED ON DOE SCIENCE REP DISCUSSIONS WITH J. SYROTA, DIRECTOR OF THE CONSERVATION AGENCY; A. BRYDEN, HEAD OF THE INDUSTRIAL DIVISION OF THIS AGENCY; R. STRAUS, PRESIDENT, GALAXY, INC., U.S., AND MATERIAL AVAILABLE IN THE FILES (INCLUDING RAPPORT D'ACTIVITE 1976, AGENCE POUR LES ECONOMIES D'ENERGIE AND "LES ECONOMIES D'ENERGIE DANS L'INDUSTRIE", COLLOQUE ORGANISE PAR AGENCE POUR LES ECONOMIES D'ENERGIE, PARIS, 13 DECEMBER 1976).

17. PLEASE ADVISE RELATIVE TO FUTURE COOPERATION
STEPS AND THE TWO PROPOSED MEETINGS DISCUSSED IN REFTEL
AND IN PARA 15 ABOVE.
HARTMAN

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Message Attributes

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Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 22 May 2009
Disposition Event:
Disposition History: n/a
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Disposition Remarks:
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